



Atty. Dkt. No. 034827-140

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5163

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Doug Hui Huang

Title: COMPOSITIONS AND METHODS
FOR TIGR GENOTYPING
ASSAYS

Appl. No.: 10/017,870

Filing Date: 12/12/2001

Examiner: Hashemi

Art Unit: 1637

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

8/22/2003 MAHMEED 00000009 10017870

FC:1006

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DLMR235061.1

Atty. Dkt. No. 034827-1401

TIMING OF THE DISCLOSURE

The listed document is being submitted in compliance with 37 CFR §1.97(c), before the mailing date of either a final action under 37 CFR §1.113, a notice of allowance under 37 CFR §1.113, or an action that otherwise closes prosecution in the application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

FEE

A fee in connection with submission of an information disclosure statement under 37 CFR §1.97(c) in the amount of \$180.00 in accordance with 37 CFR §1.17(p) is attached.

Atty. Dkt. No. 034827-1401

Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date August 18, 2003

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P.O. Box 80278
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By Barry Wilson

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Attorney for Applicant
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| <p style="text-align: center;">Substitute for form 1449B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p> <p>AUG 21 2003</p> <p>Sheet 1 of 3</p> | | | | Complete if Known | |
| | | | | Application Number | 10/017,870 |
| | | | | Filing Date | 12/12/2001 |
| | | | | First Named Inventor | Doug Hui Huang |
| | | | | Group Art Unit | 1645 |
| | | | | Examiner Name | Hashemi |
| | | | | Attorney Docket Number | 034827-1401 |

| U.S. PATENT DOCUMENTS | | | | | |
|------------------------------|-----------------------|----------------------|-----------------------------------|-------------------------------------------------|-----------------------------------------------------|
| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY |
| | | Number | Kind Code ² (if known) | | |
| | A1 | 5,861,497 | | Nguyen et al. | Jan. 19, 1999 |
| | A2 | 5,916,778 | | Stone et al. | June 29, 1999 |
| | A3 | 6,248,867 | | Nguyen et al. | June 19, 2001 |
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| FOREIGN PATENT DOCUMENTS | | | | | |
|---------------------------------|-----------------------|-------------------------|---------------------|--------------------------------------------------|-----------------------------------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY |
| | | Office ³ | Number ⁴ | | |
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| NON PATENT LITERATURE DOCUMENTS | | | | | |
|----------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | |
| | A4 | Brezin et al., "Founder effect in GLC1A-linked familial open-angle glaucoma in Northern France." Am. J. Med. Genet., 76: 438-45, 1998. | | | |
| | A5 | Dolnik, "DNA sequencing by capillary electrophoresis (review)." J Biochem Biophys Methods, 41:103-19, 1999. | | | |
| | A6 | Dovichi and Zheng, "DNA sequencing by capillary array electrophoresis." Methods Mol Biol, 167:225-39, 2001. | | | |
| | A7 | Fahy et al., "Multiplex fluorescence-based primer extension method for quantitative mutation analysis of mitochondrial DNA and its diagnostic application for Alzheimer's disease." Nucleic Acid Research, 25: 3102-3109, 1997. | | | |
| | A8 | Hafner et al., "Isothermal amplification and multimerization of DNA by Bst DNA polymerase." Biotechniques, Apr 30(4):852-867, 2001. | | | |
| | A9 | Heller, "Principles of DNA separation with capillary electrophoresis." Electrophoresis 22:629-43, 2001. | | | |

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| Examiner Signature | | Date Considered |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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| | | | | Application Number | 10/017,870 |
| | | | | Filing Date | 12/12/2001 |
| | | | | First Named Inventor | Doug Hui Huang |
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| | | | | Attorney Docket Number | 034827-1401 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
| | A10 | Lindblad-Toh et al., "Large-scale discovery and genotyping of single-nucleotide polymorphisms in the mouse." <i>Nature Genet.</i> , (24):381-6., 2000. | |
| | A11 | Meldrum, "Automation for Genomics, Part One: Preparation for Sequencing." <i>Genome Research</i> , 10:1081-1092, 2000. | |
| | A12 | Meldrum, "Automation for Genomics, Part Two: Squencers, Microarrays, and Future Trends." <i>Genome Research</i> , 10:1288-1303, 2000. | |
| | A13 | Mitchelson, "The Application of capillary electrophoresis for DNA polymorphism analysis." Keith R. Mitchelson and Jing Cheng eds., <i>Methods in Molecular Biology</i> , Totowa, NJ: Humana Press, 2001, pgs. 3-26. | |
| | A14 | Morisette et al., "Homozygotes carrying an autosomal dominant TIGR mutation do not manifest glaucoma." <i>Nat. Genet.</i> , 19:319-321, 1998. | |
| | A15 | Nguyen et al., "Gene structure and properties of TIGR, an olfactomedin-related glycoprotein cloned from glucocorticoid-induced trabecular meshwork cells." <i>J. Biol. Chem.</i> , 273: 6341-50, 1998. | |
| | A16 | Saiki, "Amplification of Genomic DNA." Innis et al., Eds., <i>PCR Protocols: A Guide to Methods and Applications</i> . San Diego, CA: Academic Press, 1990, pp 13-20. | |
| | A17 | Shimizu et al., "Age-dependent prevalence of mutations at the GLC1A locus in primary open-angle glaucoma." <i>Am. J. Ophthalmol.</i> , 130:165-77, 2000. | |

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| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. | | |
| | A18 | Wharam et al., "Specific detection of DNA and RNA targets using a novel isothermal nucleic acid amplification assay based on the formation of a three-way junction structure." Nucleic Acids Res., 29(11):E54-E54, 2001. | | |
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